

In the Claims:

1-70. (Canceled)

71. (Original) A precursor for making a polymer, said precursor having the formula:  $Y-Ar-(Y')_z$ , wherein  $z$  is an integer of 1 to about 6, wherein  $Y$  and  $Y'$  are leaving groups, and  $Ar$  is a compound containing an aromatic moiety having from greater than 6 to about 40 carbon atoms, and having at least one  $sp^2C-sp^2C$  double bond and one or more of a  $sp^2C-F$  bond or a  $sp^2C-H$  bond.

72. (Original) The precursor of claim 71, wherein  $Ar$  is selected from the group consisting of

- $(CH_{(2-n)}F_n)-(C_6H_{(4-m)}F_m)-$ , wherein  $n$  is 1 or 2 and  $m$  is an integer ranging from 1 to 4,
- $(CH_{(2-n)}F_n)-(C_6H_{(4-m)}F_m)-(CH_{(2-o)}F_o)-$  wherein  $n$  is 1 or 2 and  $m$  is an integer ranging from 1 to 4 and  $o$  is 1 or 2,
- $(CH_{(2-n)}F_n)-(C_6H_{(4-m)}F_m)-(C_6H_{(4-o)}F_o)-$  wherein  $n$  is 1 or 2 and  $m$  is an integer ranging from 1 to 4 and  $o$  is an integer ranging from 1 to 4,
- $(CH_{(2-n)}F_n)-(C_6H_{(4-m)}F_m)-(C_6H_{(4-o)}F_o)-(CH_{(2-p)}F_p)-$  wherein  $n$  is 1 or 2 and  $m$  is an integer ranging from 1 to 4 and  $o$  is an integer ranging from 1 to 4 and  $p$  is 1 or 2,
- $C_{10}H_{(6-n)}F_n-$ , wherein  $n$  is an integer ranging from 0 to 6,
- $C_{12}H_{(8-n)}F_n-$ , wherein  $n$  is an integer ranging from 0 to 8,
- $C_{13}H_{(7-n)}F_n-$ , wherein  $n$  is an integer ranging from 0 to 7,
- $C_{14}H_{(8-n)}F_n-$ , wherein  $n$  is an integer ranging from 0 to 8,
- $C_{16}H_{(10-n)}F_n-$ , wherein  $n$  is an integer ranging from 0 to 10,
- $C_{10}H_{(8-n)}F_n-$  wherein  $n$  is an integer ranging from 0 to 8,
- $C_{16}H_{(8-n)}F_n-$ , wherein  $n$  is an integer ranging from 0 to 8,
- $(C_6H_{4-n}F_n)-(C_{10}H_{6-m}F_m)-$ , where  $n$  is an integer ranging from 1 to 4 and  $m$  is an integer ranging from 1 to 6,
- $(C_{14}H_{(8-n)}F_n)-(C_{16}H_{(8-m)}F_m)-$ , wherein  $n$  and  $m$  are independently integers ranging from 1 to 8, and

$-(C_{14}H_{(8-n)}F_n)-(C_{10}H_{(10-m)}F_m)-$ , wherein n is an integer ranging from 1 to 8 and m is an integer ranging from 1 to 10;

$-(C_{10}H_{6-m}F_m)-(C_{10}H_{6-n}F_n)-(C_{10}H_{6-o}F_o)-$ , wherein m, n and o are integers independently selected from 1 to 6;

$-C_{14}H_{(8-m)}F_m-(C_{10}H_{6-n}F_n)-C_{14}H_{(8-o)}F_o-$ , wherein m and o are integers independently selected from 1 to 8 and n is an integer from 1 to 6, and  
a positional isomer of any of the above.

73. (Cancelled) The precursor of claim 71, wherein Y and Y' are independently selected from the group consisting of -H, -Cl, -Br, -NR, -SR, -SiR<sub>3</sub>, -NR<sub>2</sub> and -SO<sub>2</sub>R, wherein R is -H, an alkyl group or an aromatic group.

74. (Original) The precursor of claim 71, wherein Y is a leaving group selected from the group consisting of -H, -Br and -F.

75. (Original) The precursor of claim 71, wherein Y and Y' are Br.

76. (Original) The precursor of claim 71, wherein Ar is selected from the group consisting of:

$-CF_2-(C_6F_4)-$ ,

$-CF_2-(C_6F_4)-(C_6F_4)-$ ,

$-CF_2-(C_6F_4)-(C_6F_4)-CF_2-$ ,

$-(CF_2)-(C_6F_4)-(C_6F_4)-$ ,

$-(CF_2)-(C_6F_4)-(C_6F_4)-(CF_2)-$ ,

$-C_{10}F_6-$ ,

$-C_{12}F_8-$ ,

$-C_{13}F_7-$ ,

$-C_{14}F_8-$ ,

-C<sub>16</sub>F<sub>10</sub>-,  
-C<sub>10</sub>F<sub>8</sub>-,  
-C<sub>16</sub>F<sub>8</sub>-,  
-(C<sub>6</sub>F<sub>4</sub>)-(C<sub>10</sub>F<sub>6</sub>)-,  
-(C<sub>14</sub>F<sub>8</sub>)-(C<sub>16</sub>F<sub>8</sub>)-,  
-(C<sub>14</sub>F<sub>8</sub>)-(C<sub>16</sub>F<sub>10</sub>)-,  
-(C<sub>10</sub>F<sub>6</sub>)-(C<sub>10</sub>F<sub>6</sub>)-(C<sub>10</sub>F<sub>6</sub>)-, and  
-(C<sub>14</sub>F<sub>8</sub>)-(C<sub>10</sub>F<sub>6</sub>)-(C<sub>14</sub>F<sub>8</sub>)-,  
-(C<sub>10</sub>F<sub>6</sub>)-(C<sub>10</sub>F<sub>6</sub>)-(C<sub>10</sub>F<sub>6</sub>)-,  
-(C<sub>10</sub>F<sub>6</sub>)-(C<sub>10</sub>F<sub>6</sub>)-(C<sub>10</sub>F<sub>6</sub>)-(C<sub>10</sub>F<sub>6</sub>)-,

a combination of one or more of the above Ar groups, with the proviso that the total number of carbon atoms in said Ar group is less than about 40, and  
a positional isomer of any of the above.

77. (Original) The precursor of claim 71 having a formula selected from the group consisting of:

Br-CF<sub>2</sub>-(C<sub>6</sub>F<sub>4</sub>)-Br,  
Br-CF<sub>2</sub>-(C<sub>6</sub>F<sub>4</sub>)-(C<sub>6</sub>F<sub>4</sub>)-Br,  
Br-(CF<sub>2</sub>)-(C<sub>6</sub>F<sub>4</sub>)-(C<sub>6</sub>F<sub>4</sub>)-(CF<sub>2</sub>)-Br,  
Br-C<sub>10</sub>F<sub>6</sub>-Br,  
Br-C<sub>12</sub>F<sub>8</sub>-Br,  
Br-C<sub>13</sub>F<sub>7</sub>-Br,  
Br-C<sub>14</sub>F<sub>8</sub>-Br,  
Br-C<sub>16</sub>F<sub>10</sub>-Br,  
Br-C<sub>10</sub>F<sub>8</sub>-Br,  
Br-C<sub>16</sub>F<sub>8</sub>-Br, and

a positional isomer of the above.